

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of

Confirmation No. 6291

SIRARD et al.

Atty. Ref.: 2590-112

Appln. No. 10/526,271

T.C. / Art Unit: 1645

Filed: June 2, 2005

Examiner: B.J. Gangle

FOR: FLAGELLIN PEPTIDES AS ADJUVANTS FOR VACCINES

\* \* \*

**INFORMATION DISCLOSURE STATEMENT**

March 16, 2007

Hon. Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Attached is Form PTO-1449 listing U.S. patent documents and the enclosed non-U.S. patent documents. The international search report is included. No fee is due since this Information Disclosure Statement (IDS) is being filed prior to a first Office Action on the merits.

This IDS is intended to be in full compliance with the rules, but should the Examiner find any part of its required content to have been omitted, prompt notice to that effect is earnestly solicited, along with additional time under 37 CFR § 1.97(f), to enable Applicants to comply fully. In particular, if any of the listed documents are missing or incomplete, please contact the undersigned who will provide another copy.

As provided by 37 CFR §§ 1.97(g) and (h), no inference should be made that this information and the listed references are prior art merely because they have been submitted for consideration. Furthermore, no representation is being made that a search

has been conducted or that this statement encompasses all possible material information.

Consideration of the foregoing and enclosures, as well as the return of a copy of the Form PTO-1449 with the Examiner's initials per M.P.E.P. § 609, are earnestly solicited. The Examiner is invited to contact the undersigned if any further information is needed.

Respectfully submitted,

**NIXON & VANDERHYE P.C.**

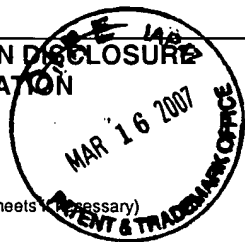
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INFORMATION DISCLOSURE  
CITATION

(Use several sheets if necessary)



APPLN. NO.

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ATTY. DKT. NO.

2590-112

APPLICANT

SIRARD et al.

FILING DATE

June 2, 2005

GROUP

1645

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AR	5,554,372	09/1996	Hunter			
BR	2003/0044429 A1	03/2003	Aderem et al.			
CR	2005/0147627 A1	07/2005	Aderem et al.			
DR						
ER						
FR						
GR						

## FOREIGN PATENT DOCUMENTS

DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
HR	88/01873	03/1988	WIPO		
IR	02/085933 A1	10/2002	WIPO		
JR	2004/022092 A3	03/2004	WIPO		
KR					
LR					
MR					
NR					
OR					

## OTHER DOCUMENTS (including Author, Title, Pertinent pages, Date, etc.)

PR	Conwell et al. "Rapid antibody levels to Pseudomonas aeruginosa flagellin protein generated by targeted dendritic cell immunization" Abstracts of the 102nd General Meeting of the American Society for Microbiology 102:170 (May 2002)
QR	Donnelly et al. "Two nonadjacent regions in enteroaggregative <i>Escherichia coli</i> flagellin are required for activation of toll-like receptor 5" J. Biol. Chem. 277:40456-40461 (Oct 2002)
RR	Eaves-Pyles et al. " <i>Salmonella</i> flagellin-dependent proinflammatory responses are localized to the conserved amino and carboxyl regions of the protein" J. Immunol. 167:7009-7016 (Dec 2001)
SR	Gewirtz et al. "Bacterial flagellin activates basolaterally expressed TLR5 to induce epithelial proinflammatory gene expression" J. Immunol. 167:1882-1885 (Aug 2001)
TR	Joys "The covalent structure of the phase-1 flagellar filament protein of <i>Salmonella typhimurium</i> and its comparison with other flagellins" J. Biol. Chem. 260:15758-15761 (Dec 1985)
UR	Kaisho et al. "Toll-like receptors as adjuvant receptors" Biochim Biophys Acta 1589:1-13 (2002)
VR	Lyons et al. "Central portion of flagellin monomers activate TLR5-mediated pro-inflammatory gene expression via Ca <sup>++</sup> -dependent signalling pathway" Gastroenterology 122(suppl):A64-A65 (Apr 2002)
WR	McSorley et al. "Characterization of CD4 T cell responses during natural infection with <i>Salmonella typhimurium</i> " J. Immunol. 164:986-993 (Jan 2000)
XR	McSorley et al. "Bacterial flagellin is an effective adjuvant for CD4+ T cells in vivo" J. Immunol. 169:3914-3919 (Oct 2002)
YR	Sierro et al. "Flagellin stimulation of intestinal epithelial cells triggers CCL20-mediated migration of dendritic cells" Proc. Natl. Acad. Sci. USA 98:13722-13727 (Nov 2001)
ZR	

\*Examiner

Date Considered

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.